

through network connections, wherein a plurality of testing components are coupled each to one or more of the network connections so that the testing components each can detect electronic signals relating to the electronic data transmission through the one or more network connections to which the respective testing component is coupled, the method comprising the following steps:

establishing a test connection for exchange of electronic signals, including test and/or control signals, between one of the testing components and at least another one of the testing components in response to a current testing task, the one testing component being coupled to one network connection and the at least one other testing component being coupled to another network connection in the network;

establishing a master-server configuration in response to the current testing task, the one testing component being configured as a master testing component and the at least one other testing component being configured as a server testing component;

automatically synchronizing in time the master testing component and the server testing component;

electronically initiating detection of current electronic test signals by the master testing component on the other network connection by means of the server testing component and allocating electronic time information to the detected current electronic test signals in automatic consideration of the previously accomplished time synchronization; ~~and~~

processing the detected current electronic test signals and the allocated electronic time information by the server testing component and/or the master testing component in automatic consideration of the allocated electronic time information, and

carrying out another current testing task upon termination of the current testing task, wherein another master-server configuration is established in response to the other current testing task, the at least one other testing component being configured as a master testing component and the one testing component being configured as a server testing component.

2. (cancelled)

3. (previously amended) The method as claimed in claim 1, characterized in that establishment of the master-server configuration in response to the current testing task and/or establishment of the other master-server configuration in response to the other current testing task are limited to a predetermined period of time of which the duration depends on the current or other current testing task, respectively.

4. (previously amended) The method as claimed in claim 1, characterized in that a synchronization connection for automatic synchronization in time is established between the master testing component and the server testing component for exchanging synchronization signals.

5. (previously amended) The method as claimed in claim 4, characterized in that synchronization signals transmitted from the master testing component to the server testing component comprise time standard signals so that the automatic synchronizing in time is released by the master testing component.

6. (previously amended) The method as claimed in any one of claim 1, characterized in that time standard signals transmitted via radio connections are received by the master testing component and/or the server testing component for automatic synchronizing in time.

7. (currently amended) A The method as claimed in claim 1, characterized in that of testing electronic signals in a network, comprising network units between which information can be exchanged by electronic data transmission through network connections, wherein a plurality of testing components are coupled each to one or more of the network connections so that the testing components each can detect electronic signals relating to the electronic data transmission through the one or more network connections to which the respective testing component is coupled, the method comprising the following steps:

establishing a test connection for exchange of electronic signals, including test and/or control signals, between one of the testing components and at least another one of the testing components in response to a current testing task, the one testing component being coupled to one network connection and the at least one other testing component being coupled to another network connection in the network;

establishing a master-server configuration in response to the current testing task, the one testing component being configured as a master testing component and the at least one other testing component being configured as a server testing component;

automatically synchronizing in time the master testing component and the server testing component;

electronically initiating detection of current electronic test signals by the master testing component on the other network connection by means of the server testing component and allocating electronic time information to the detected current electronic test signals in automatic consideration of the previously accomplished time synchronization; and

processing the detected current electronic test signals and the allocated electronic time information by the server testing component and/or the master testing component in automatic consideration of the allocated electronic time information,

wherein simulation signals are generated by means of the master testing component and fed into the network, ~~in that~~ electronic data of the simulation signals, including associated electronic simulation signal time information in response to the previously accomplished synchronizing in time, are stored in the master testing component, and ~~in that~~ the electronic data of the simulation signals stored in the master testing component are automatically taken into consideration in the processing of the current electronic test signals transmitted from the server testing component to the master testing component.

8. (currently amended) A ~~The method as claimed in claim 1, characterized in that~~ of testing electronic signals in a network, comprising network units between which information can be exchanged by electronic data transmission through network connections, wherein a plurality of testing components are coupled each to one or more of the network connections so that the testing components each can detect electronic signals relating to the electronic data transmission through the one or more network connections to which the respective testing component is coupled, the method comprising the following steps:

establishing a test connection for exchange of electronic signals, including test and/or control signals, between one of the testing components and at least another one of the testing components in response to a current testing task, the one testing component being coupled to one network connection and the at least one other testing component being coupled to another network connection in the network;

establishing a master-server configuration in response to the current testing task, the one testing component being configured as a master testing component and the at least one other testing component being configured as a server testing component;

automatically synchronizing in time the master testing component and the server testing component;

electronically initiating detection of current electronic test signals by the master testing component on the other network connection by means of the server testing component and allocating electronic time information to the detected current electronic test signals in automatic consideration of the previously accomplished time synchronization; and

processing the detected current electronic test signals and the allocated electronic time information by the server testing component and/or the master testing component in automatic consideration of the allocated electronic time information,

wherein further simulation signals are generated by means of the server testing component and fed into the network, ~~in that~~ electronic data of the further simulation signals, including associated electronic simulation signal time information in response to the previously accomplished synchronizing in time, are transmitted from the server testing component to the master testing component, and ~~in that~~ the electronic data of the further simulation signals

transmitted from the server testing component to the master testing component are automatically taken into consideration in the processing of the current electronic test signals transmitted from the server testing component to the master testing component.

9. (previously amended) The method as claimed in claim 1, characterized in that electronic data of characteristics of the network are automatically taken into consideration in establishing the test connection and establishing the master-server configuration in response to the current testing task and/or in establishing the further master-server configuration in response to the further current testing task.

11. (currently amended) An apparatus for testing electronic signals in a network including network units between which information can be exchanged by electronic data transmission through network connections, the apparatus comprising

connecting means for coupling to one or more of the network connections;

interface means for establishing a test connection with at least one other testing apparatus in response to a current testing task for exchanging electronic data, including test and/or control signals, with the at least one other testing apparatus;

configuration means for establishing a ~~master configuration or a~~ master-server configuration with the at least one other testing apparatus in response to the current testing task, the testing apparatus being configured as a master testing apparatus and the at least one other testing apparatus being configured as a server testing apparatus;

synchronizing means for time synchronization with the at least one other testing apparatus;

detecting means for detecting current electronic test signals relating to an electronic data transfer through the one or more network connections;

allocating means for automatically allocating electronic time information to detected current electronic test signals in automatic consideration of the time synchronization with the at least one other testing apparatus;

transmitting means for transmitting detected current electronic test signals and the allocated electronic time information to the at least one other testing apparatus; and
processing means for processing the detected current electronic test signals and the allocated electronic time information,

means for establishing another master-server configuration in response to another current testing task upon termination of the current testing task, the at least one other testing apparatus being configured as a master testing apparatus and the testing apparatus being configured as a server testing apparatus.

12. (previously amended) The apparatus as claimed in claim 11, characterized by display means for electronic output of the current electronic test signals detected and/or the current electronic test signals processed by the processing means.

13. (previously amended) The apparatus as claimed in claim 11, characterized by a user interface for detection of user inputs and/or for the output of user data.

14. (previously amended) The apparatus as claimed in claim 11, characterized by receiving means for receiving time standard signals which are transmitted via radio connections.